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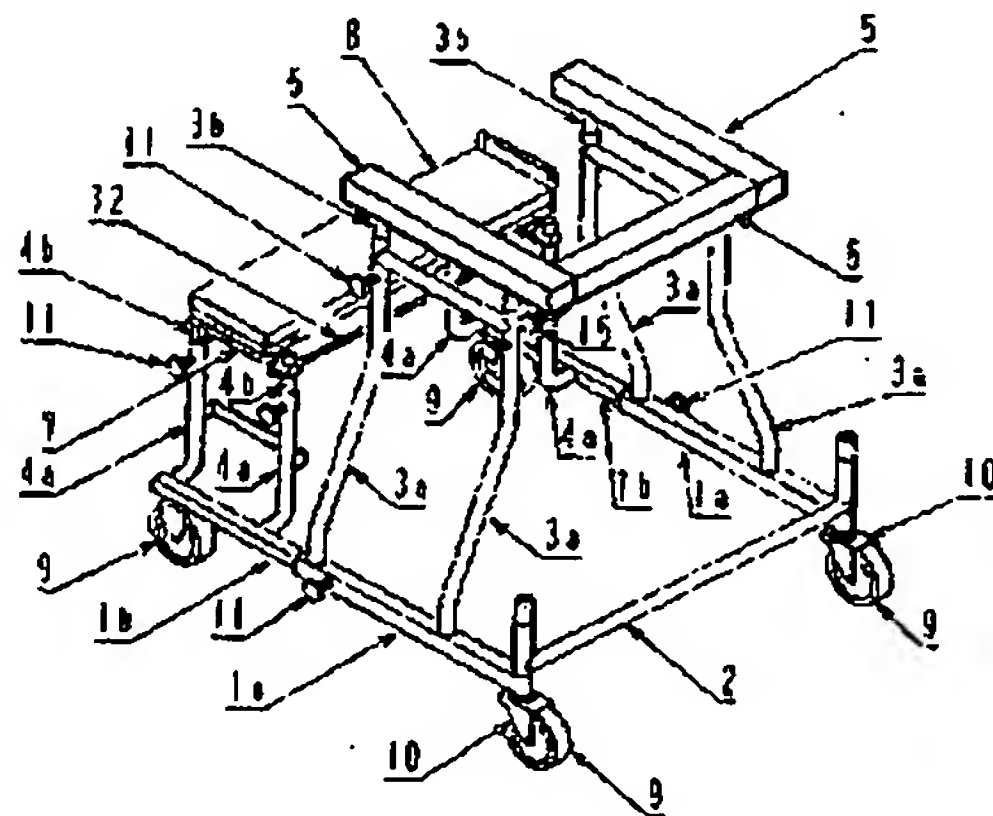
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(54) 【考案の名称】 腰掛付歩行補助車

(57) 【要約】

【目的】 使用者の身体的特徴に合わせ寸法の細かな設定が可能で、又腰掛も未使用時には邪魔にならず、保管も折畳によりスペースを取らない腰掛付歩行補助車の提供を目的とする。

【構成】 肘掛用部材と腰掛のそれぞれに高さ調節機構を備え、更に両者の間に長さ調節機構を設け、腰掛を回動及びスライド可能に構成し、更に全体は折畳可能に構成する。



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【実用新案登録請求の範囲】

【請求項1】 後方を開口部とするコの字状ベースフレームに於いて、前記ベースフレーム下面先端部と後部それぞれに左右一対の走行用キャスターを備え、前記ベースフレーム上面の前部と後部にそれぞれ左右一対又は二対以上の支柱を立設固着し前記前部支柱上端部に肘掛用部材を備え、前記後部支柱上端部に腰掛支持用フレームと、該腰掛支持用フレームに回転及びスライド可能に腰掛を備えたことを特徴とする腰掛付歩行補助車。

【請求項2】 前記ベースフレームは左右一対の長さ調節機構を設けた縦フレームと、前記縦フレーム左右の先端部とそれぞれ軸着された前記横フレームとから成り、前記軸着部に前記走行用キャスターを前記走行用キャスター支持部材の方向回転軸と回転軸を共有するように設置したことを特徴とする請求項1記載の腰掛付歩行補助車。

【請求項3】 前記前部及び後部の支柱にはそれぞれ前記肘掛用部材と前記腰掛支持用フレームの高さ調節機構を設け、さらに前記前部及び後部の支柱間の距離も前記長さ調節機構を設けた前記縦フレームにより長短自在となるよう構成したことを特徴とする請求項1及び2記載の腰掛付歩行補助車。

【請求項4】 前記肘掛用部材は後方を開口部とするコの字状に設置し一対の縦肘掛用部材と横肘掛用部材とからなり、前記横肘掛用部材は一対の前記縦肘掛用部材先端部の一方と回転可能に軸着し、他方を着脱自在に追接したことを特徴とする請求項1及び3記載の腰掛付歩行補助車。

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*【請求項5】 前記腰掛は下面長手方向に一対のガイドバーを備え、前記腰掛支持用フレームのどちらか一方を前記腰掛下面と前記ガイドバー間に挿通配したことを特徴とする請求項1、3及び4記載の腰掛付歩行補助車。

【図面の簡単な説明】

【図1】 全体斜視図

【図2】 全体正面図

【図3】 全体左側面図

【図4】 全体右側面図

【図5】 全体正面変移図

【図6】 キャスター支持部材軸着一部断面図

【図7】 肘掛用部材下面平面図

【図8】 腰掛側面図

【図9】 腰掛収納時の全体斜視図

【図10】 腰掛収納時の全体平面図

【図11】 折畳途中全体平面図

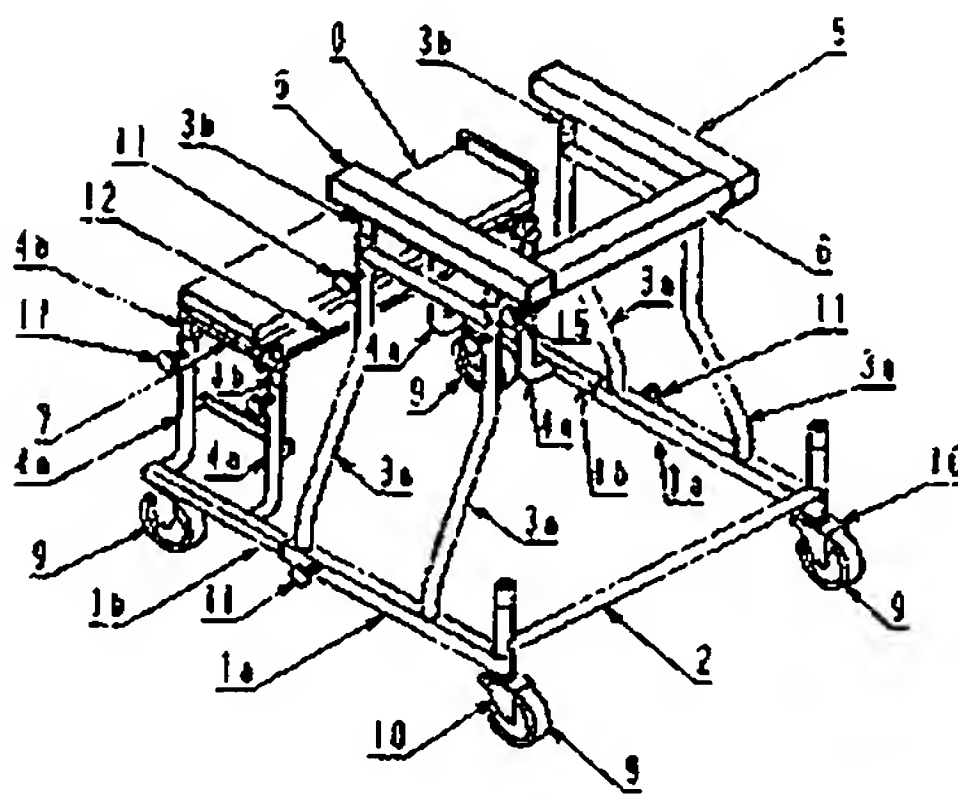
【図12】 折畳完了時全体平面図

【図13】 折畳完了時全体斜視図

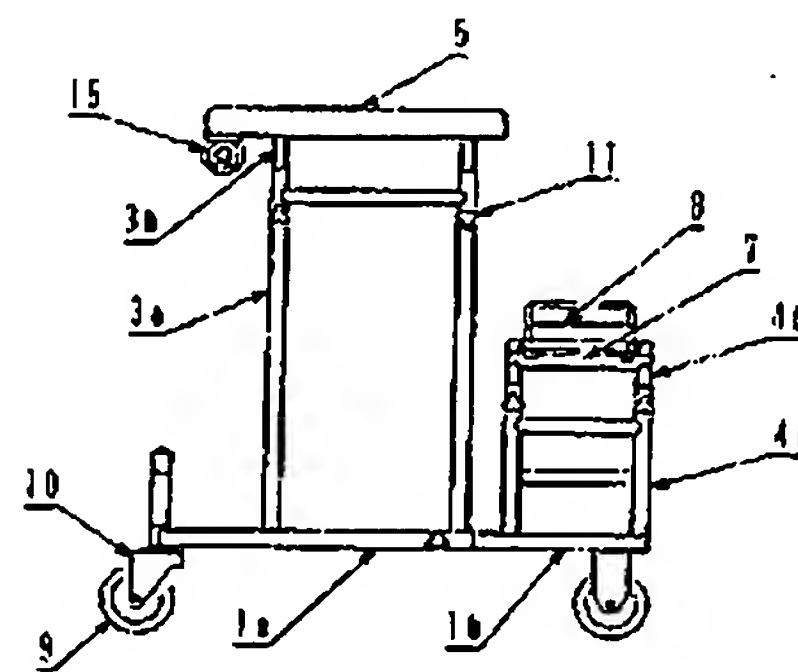
【符号の説明】

1aと1bは縦フレーム、2は横フレーム、3aと3bは前部支柱、4aと4bは後部支柱、5は縦肘掛用部材、6は横肘掛用部材、7は腰掛支持用フレーム、8は腰掛、9は走行用キャスター、10は走行用キャスター支持部材、11は止めネジ、12はガイドバー、13は方向回転軸、14aと14bは垂直パイプ、15はジョイントネジ、16は蝶番、17はホルダー、18はジョイントネジ受を示す。

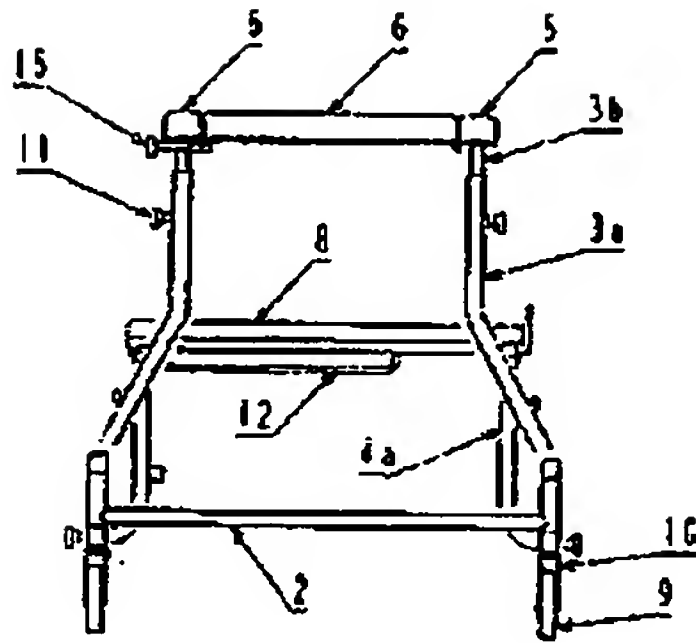
【図1】



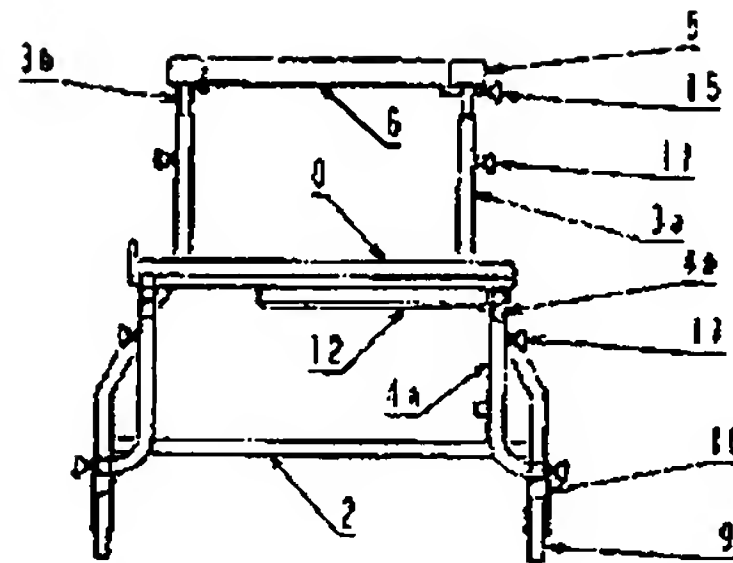
【図2】



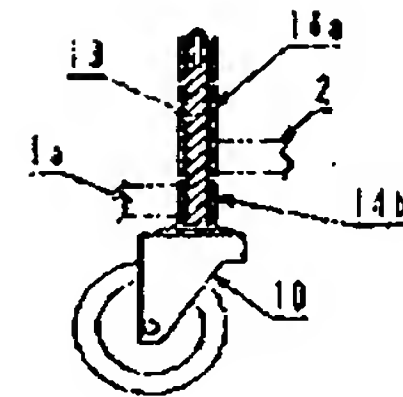
【図3】



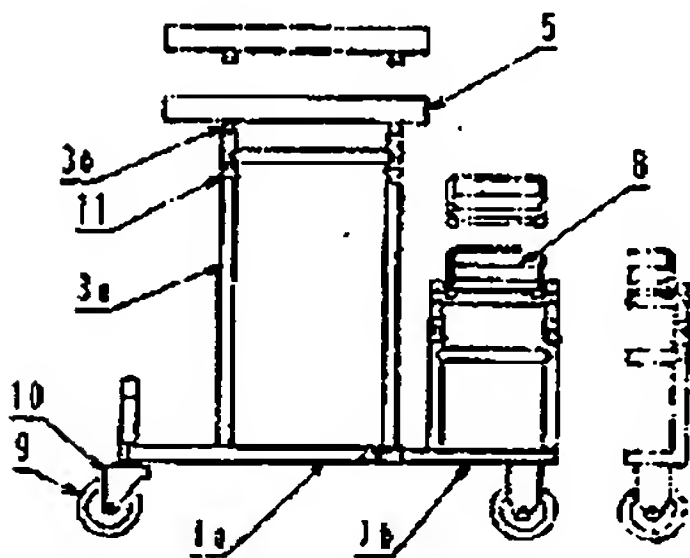
【図4】



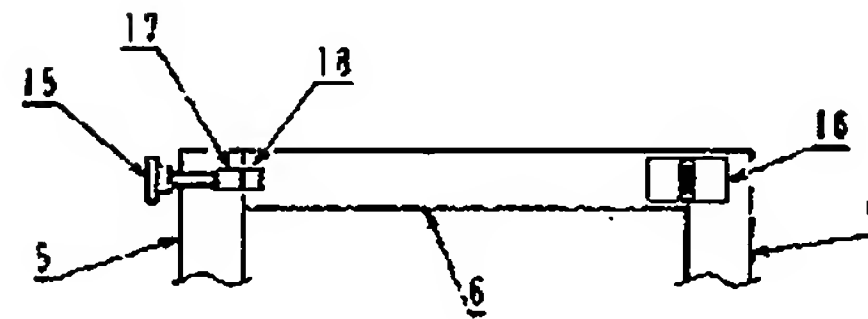
【図6】



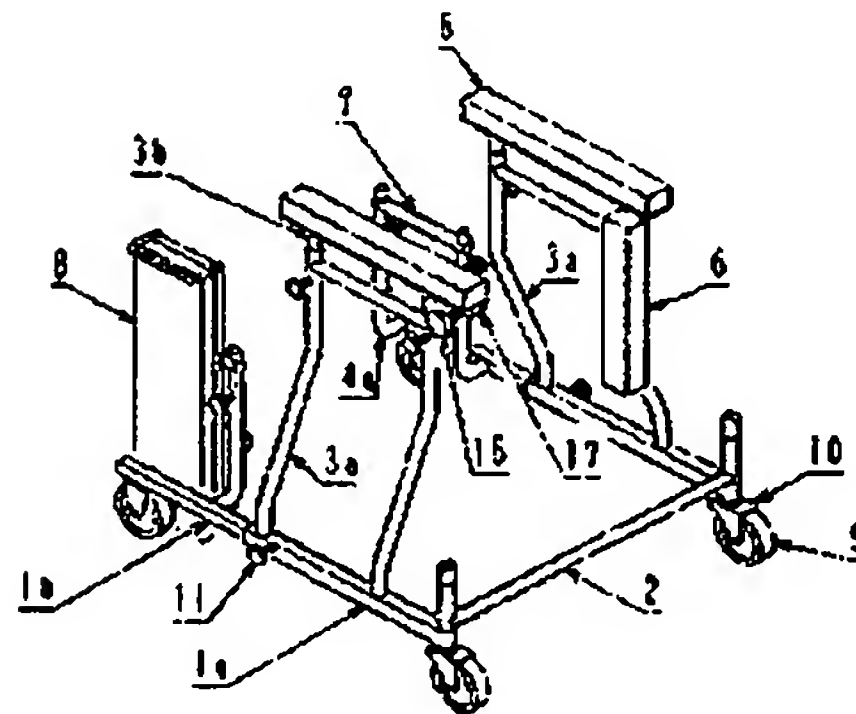
【図5】



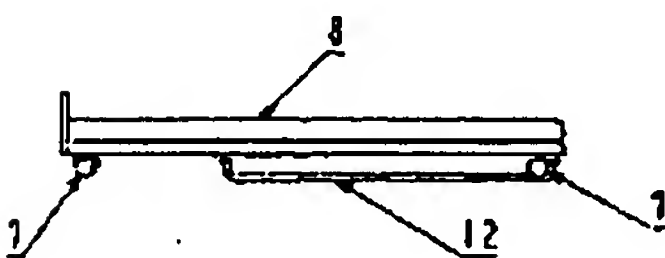
【図7】



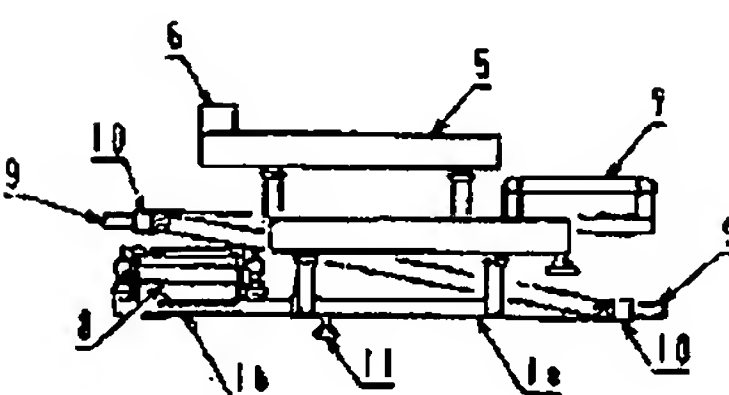
【図9】



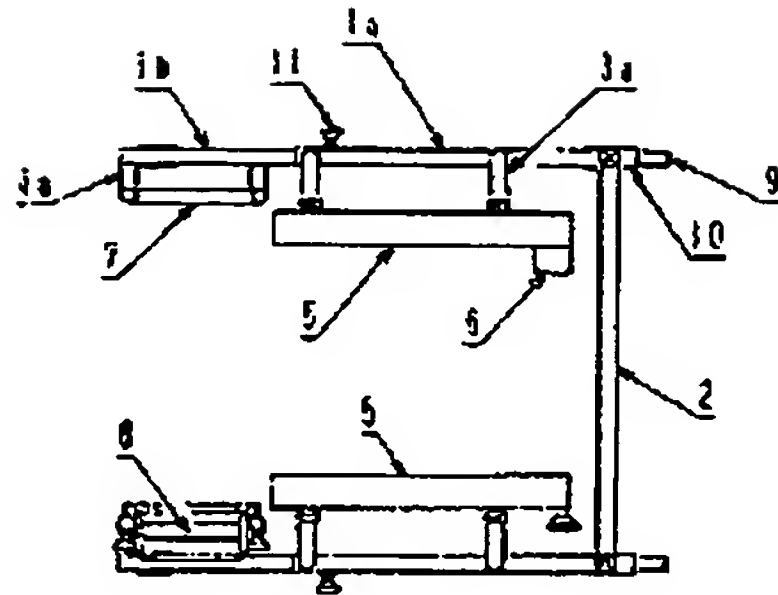
【図8】



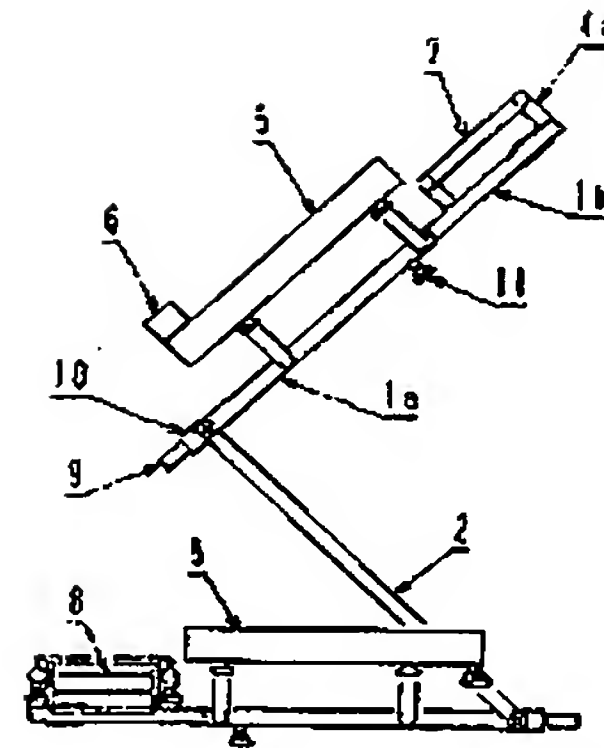
【図12】



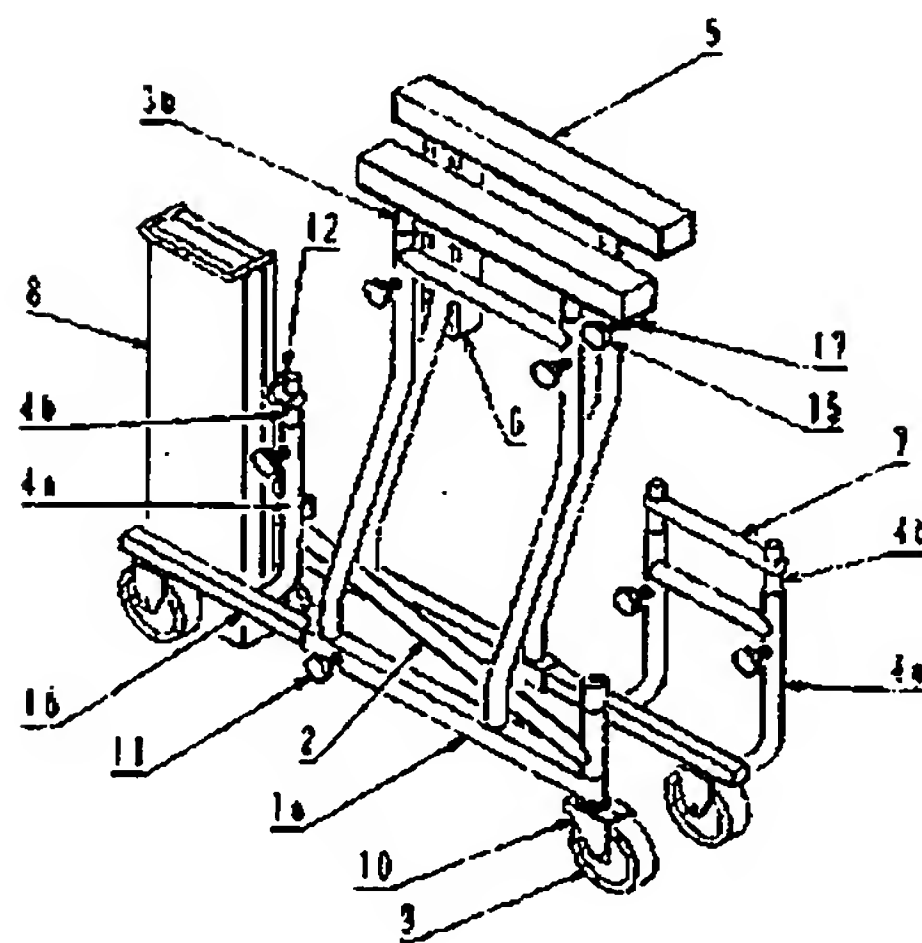
【図10】



【図11】



【図13】



【考案の詳細な説明】**【0001】****【産業上の利用分野】**

この考案は歩行の補助となる腰掛付歩行補助車に関するものである。

【0002】**【従来技術】**

従来この種の腰掛付歩行補助車は大別して腰掛部が前方に設定されたものと後方に設定されたものが供されているが、前者の腰掛部が前方に設定された歩行車においては使用時に腰掛部がそのまま設定された状態であるためその構造上前方への足運びの不安感による使用者の重心移動によるバランスのくずれが発生しやすく疲労や危険をまねき、また後者の後方に設定されたものにおいてはその構造が腰掛部を取付式とし、その際に介護者を必要としたり、設置済みのものにあっては折畳みが不可能で、未使用時の保管スペースが必要だったりとそれぞれ問題点を残していた。

更に前者、後者とも使用者の身体的特徴、すなわち性別、年齢、身長、座高、上肢及び下肢の障害度等はまさに千差万別であり、それぞれに十分な設定対応ができないという問題点も残したままであった。

【0003】**【考案が解決しようとする課題】**

本考案が解決しようとする課題は上記にみられるようなさまざまな問題点に対し使用時の安定さ、簡便さ、折畳みによる省スペース化さらに使用者それぞれの身体的特徴にあわせた十分な設定対応を可能とせんとするものである。

【0004】**【課題を解決するための手段】**

上記の目的を達成する為に本腰掛付歩行補助車は、後方を開口部とするコの字状ベースフレームに於いて、前記ベースフレーム下面先端部と後部それぞれに左右一対の走行用キャスターを備え、前記ベースフレーム上面の前部と後部にそれぞれ左右一対又は二対以上の支柱を立設固着し前記前部支柱上端部に肘掛用部材を備え、前記後部支柱上端部に腰掛支持用フレームと、該腰掛支持用フレームに

回動及びスライド可能に腰掛を備え、前記ベースフレームは左右一対の長さ調節機構を設けた縦フレームと、前記縦フレーム左右の先端部とそれぞれ軸着された前記横フレームとから成り、前記軸着部に前記走行用キャスターを前記走行用キャスター支持部材の方向回転軸と回動軸を共有するように設置する。

そして、前記前部及び後部の支柱にはそれぞれ前記肘掛用部材と前記腰掛支持用フレームの高さ調節機構を設け、さらに前記前部及び後部の支柱間の距離も前記長さ調節機構を設けた前記縦フレームにより長短自在となるよう構成し、前記肘掛用部材は後方を開口部とするコの字状に設置し一対の縦肘掛用部材と横肘掛用部材とからなり、前記横肘掛用部材は一対の前記縦肘掛用部材先端部の一方と回動可能に軸着し、他方を着脱自在に接続し、さらに前記腰掛は下面長手方向に一対のガイドバーを備え、前記腰掛支持用フレームのどちらか一方を前記腰掛下面と前記ガイドバー間に挿通配したことを特徴とする。

【0005】

【作用】

上記のように構成された腰掛付歩行補助車は、ベースフレーム前部と後部に立設固定された支柱高さ調節機構により、支柱上端部の肘掛用部材並びに腰掛支持用フレームと腰掛も同様に高さ位置がそれぞれ自由に調節可能で、その上ベースフレーム前部の肘掛用部材と後部の腰掛支持用フレーム及び腰掛の距離もベースフレームの長さ調節機構により自由に調節可能となる。

さらに腰掛未使用時は後部腰掛支持用フレーム横に立垂して収納可能となり、使用時は回動及びスライドさせて腰掛としての役割が可能となる。

そして又別に一対の縦肘掛用部材先端部の他方先端部と横肘掛用部材との着脱自在の接続を脱状態にすることにより本腰掛付歩行補助車は折畳可能となる。

【0006】

【実施例】

以下図面に基づいて本考案の実施例を説明する。

図1は本考案の全体斜視図、図2は全体正面図、図3～4は左右からの全体側面図である。

縦フレーム1aは中空の角柱を使用しその内寸とほぼ同寸の外寸を持つ1bと

挿通可能に設計する。この設計により縦フレーム全体の長さ調節機構とし所定の長さに止めネジ11により固定する。又角柱で構成することにより後部支柱4a、4bの転倒防止の役割も同時に果たしている。

前部、後部の各支柱3a、3b、4a、4bはそれぞれ中空パイプで設計し、支柱3a、4aの内径とほぼ同寸の外径を持つ3b、4bを挿通可能に設計し、前部支柱3a、3bと後部支柱4a、4bのそれぞれの高さ調節機構とし所定の長さに止めネジ11により固定する。

【0007】

図5は本考案全体正面図の変移図で、長さとは高さ調節機構による各部の変移を二点鎖線で示す。

図6は縦フレーム1a、横フレーム2、及び走行用キャスター支持部材10との軸着一部断面図である。方向回転軸13を、横フレーム2に固着された垂直パイプ14aと縦フレーム1aに固着された垂直パイプ14bに挿通し、横フレーム2と縦フレーム1aが方向回転軸13を中心に水平面上を回転するように設置する。

図7は縦肘掛用部材5と横肘掛用部材6の下面平面図である。一対の縦肘掛用部材5の先端部の一方と蝶番16を介して横肘掛用部材6と軸着し、他方をホルダー17とジョイントネジ受18を介してジョイントネジ15により着脱自在に接続するよう構成する。

【0008】

図8は腰掛8の側面図で、腰掛8の下面長手方向に一対のガイドバー12を備え一対の腰掛支持用フレーム7の一方を腰掛下面とガイドバー12との間に挿通配されている。これらにより腰掛8は腰掛支持用フレーム7の一方を中心に回転及びスライド可能となり、腰掛8未使用時は後部腰掛支持用フレーム7の一方の外側横に立垂して収納可能となり、使用時は回転及びスライドさせて腰掛としての役割が可能となる。

【0009】

図9は腰掛8の収納時の全体斜視図である。

そして以上の構成により腰掛付歩行補助車は折畳可能となる。

図10において腰掛8は立垂して収納状態となっている。又横肘掛用部材6は縦肘掛用部材5の先端部の他方先端部と接続を脱状態とする。

図11は折畳途中全体平面図である。

図12は折畳完了時の全体平面図である。

図13は折畳完了時の全体斜視図である。

【0010】

【考案の効果】

この考案によれば使用者それぞれの身体的特徴に合わせ肘掛用部材、腰掛それぞれの高さ位置が自由に設定可能で、又肘掛用部材と腰掛との距離も自由に設定でき非常に細かな対応が可能となる。又腰掛は未使用時には邪魔にならず、更に全体を折畳むことによって保管も容易である。

【0011】

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CLAIMS

[The scope of a claim for utility model registration]

[Claim 1]A horseshoe-shaped base frame which uses back as an opening, comprising:
Said base frame undersurface tip part and each rear are equipped with an axle-pin rake for a run of a right-and-left couple, set-up adherence of a right-and-left couple or two or more pairs of supports is carried out at anterior part and the rear on said upper surface of a base frame, respectively, said anterior part support upper bed part is equipped with a member for armrests, and it is a frame for seat support to said rear support upper bed part.
It is a seat so that rotation and a slide on this frame for seat support are possible.

[Claim 2]A longitudinal framing in which said base frame formed a length adjustment mechanism of a right-and-left couple, The walk supporting vehicle with a seat according to claim 1 which comprises a tip part of said longitudinal framing right and left, and said transverse frame attached pivotally, respectively, and is characterized by installing said axle-pin rake for a run so that a direction rotation axis and a rotating shaft of said axle-pin-rake support member for a run may be shared at said pivotal attachment part.

[Claim 3]A height control mechanism of said member for armrests and said frame for seat support is formed in a support of said anterior part and the rear, respectively, A walk supporting vehicle with a seat given in claims 1 and 2 constituting so that merits and demerits also of distance between supports of said anterior part and the rear may furthermore become free by said longitudinal framing which formed said length adjustment mechanism.

[Claim 4]A walk supporting vehicle with a seat given in claims 1 and 3 having installed said member for armrests in horseshoe-shaped [which uses back as an opening], having consisted of a member for vertical armrests of a couple, and a member for horizontal armrests, having attached said member for horizontal armrests pivotally rotatable with one side of said member tip part for vertical armrests of a couple, and connecting another side enabling free attachment and detachment.

[Claim 5]A walk supporting vehicle with a seat given in claims 1, 3, and 4, wherein said seat equipped an undersurface longitudinal direction with a guide bar of a couple and ***** one of said frames for seat support between said seat undersurface and said guide bar.

[Translation done.]

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DETAILED DESCRIPTION

[Detailed explanation of the device]

[0001]

[Industrial Application]

This device is related with the walk supporting vehicle with a seat used as assistance of a walk.

[0002]

[Description of the Prior Art]

Although the thing which divides roughly this kind of walk supporting vehicle with a seat conventionally and by which the seat part was set up ahead, and the thing set as back are offered. That it is easy to generate collapse of the balance by the centroid movement of the user by the insecurity of the leg progress to the method of the structure kickback since the former seat part is in the state where the seat part was set up as it was in the rollator set up ahead at the time of use, imitate fatigue and danger and it comes, It had left the problem, respectively, a storage space at the time of intact being [if it is in the installed thing in the structure's making a seat part an attachment type, and needing a care worker in that case in what was set up behind latter, folding is impossible, and] required.

It had also left the problem that the former and the latter of the degree of obstacle of a user's bodily features, i.e., sex, age, height, height sitting down, an upper extremity, and the membrum inferius were just of infinite variety, and could not perform sufficient setting-out correspondence for each.

[0003]

[Problem(s) to be Solved by the Device]

The issue which this design tends to solve uses as a plug sufficient setting-out correspondence united with each user's bodily features at the stability at the time of use, simplicity, and the space-saving-ized pan by folding to it being possible to various problems which are seen above.

[0004]

[Means for Solving the Problem]

In order to attain the above-mentioned purpose a walk supporting vehicle with earnest credit, In a horseshoe-shaped base frame which uses back as an opening, said base frame undersurface tip part and each rear are equipped with an axle-pin rake for a run of a right-and-left couple, Carry out set-up adherence of a right-and-left couple or two or more pairs of supports at anterior part and the rear on said upper surface of a base frame, respectively, equip said anterior part support upper bed part with a member for armrests, and in said rear support upper bed part A frame for seat support, A longitudinal framing in which equipped this frame for seat support with a seat so that rotation and a slide were possible, and said base frame formed a length adjustment mechanism of a right-and-left couple, A tip part of said longitudinal framing right and left and said transverse frame attached pivotally, respectively are comprised, and said axle-pin rake for a run is installed in said pivotal attachment part so that a direction rotation axis and a rotating shaft of said axle-pin-rake support member for a run may be shared.

And a height control mechanism of said member for armrests and said frame for seat support is formed in a support of said anterior part and the rear, respectively, It constitutes so that merits and demerits also of distance between supports of said anterior part and the rear may

furthermore become free by said longitudinal framing which formed said length adjustment mechanism, Install said member for armrests in horseshoe-shaped [which uses back as an opening], and it consists of a member for vertical armrests of a couple, and a member for horizontal armrests, Said member for horizontal armrests was attached pivotally rotatable with one side of said member tip part for vertical armrests of a couple, another side was connected, enabling free attachment and detachment, said seat equipped an undersurface longitudinal direction with a guide bar of a couple further, and one of said frames for seat support was ~~****~~(ed) between said seat undersurface and said guide bar.

[0005]

[Function]

The walk supporting vehicle with a seat constituted as mentioned above, With the support height control mechanism by which set-up immobilization was carried out, a height position can also adjust similarly the member for armrests and the frame for seat support, and seat of a support upper bed part freely at base frame anterior part and the rear, respectively, Moreover, regulation also of the distance of the member for armrests of base frame anterior part, the hind frame for seat support, and a seat is freely attained with the length adjustment mechanism of a base frame.

Furthermore, it ~~***~~ beside [for rear seat support] a frame at the time of seat intact, and the storage of it is attained, it is made to rotate and slide at the time of use, and a role of a seat of it becomes possible.

And ~~***~~ of the walk supporting vehicle with earnest credit becomes possible by changing into a destate independently the connection in which attachment and detachment with the another side tip part of the member tip part for vertical armrests of a couple and the member for horizontal armrests are free again.

[0006]

[Example]

Based on a drawing, the example of this design is described below.

As for drawing 1, as for the whole this design perspective view and drawing 2, a whole front view, drawing 3 - 4 are the whole side views from right and left.

Using a square pillar in the air, the longitudinal framing 1a is designed so that the inside dimension, 1b which has an outer size of the ~~**~~ mostly, and insertion are possible. It is considered as the length adjustment mechanism of the whole longitudinal framing by this design, and fixes to predetermined length with the set screw 11. The role of the falling preventive of the rear supports 4a and 4b is also simultaneously played by constituting from a square pillar.

A hollow pipe designs each struts 3a, 3b, 4a, and 4b of anterior part and the rear, respectively, and they design the inside diameter of the supports 3a and 4a, and 3b and 4b which have an outer diameter of the ~~**~~ mostly so that insertion is possible, they use them as each height control mechanism of the anterior part supports 3a and 3b and the rear supports 4a and 4b, and are fixed to predetermined height with the set screw 11.

[0007]

Drawing 5 is a change figure of the whole this design front view, and shows the change of each part by length and a height control mechanism with a two-dot chain line.

Drawing 6 is a pivotal attachment part sectional view with the longitudinal framing 1a, the transverse frame 2, and the axle-pin-rake support member 10 for a run. The direction rotation axis 13 is inserted in the vertical pipe 14a which adhered to the transverse frame 2, and the vertical pipe 14b which adhered to the longitudinal framing 1a, and it installs so that the transverse frame 2 and the longitudinal framing 1a may rotate a level surface top focusing on the direction rotation axis 13.

Drawing 7 is an undersurface top view of the member 5 for vertical armrests, and the member 6 for horizontal armrests. It attaches pivotally with the member 6 for horizontal armrests via one side and the hinge 16 of a tip part of a couple, and it constitutes so that another side may be connected with the electrode holder 17 with the joint screw 15 via the joint screw carrier 18, enabling free attachment and detachment. [of the member 5 for vertical armrests]

[0008]

Drawing 8 is a side view of the seat 8, equips the undersurface longitudinal direction of the seat 8 with the guide bar 12 of a couple, and is ~~*****~~(ed) between the seat undersurface and the guide bar 12 in one side of the frame 7 for seat support of a couple. Rotation and the slide of the seat 8 are attained focusing on one side of the frame 7 for seat support by these, it ~~****~~ beside [one / outside] the frame 7 for rear seat support at the time of seat 8 intact, and the storage of it is attained, it is made to rotate and slide at the time of use, and a role of a seat of it becomes possible.

[0009]

Drawing 9 is the whole time perspective view of storage of the seat 8.

And ~~****~~ of the walk supporting vehicle with a seat becomes possible by the above composition.

In drawing 10, the seat 8 is ~~****~~(ed) and has become a housed state. The member 6 for ~~****~~ armrests changes connection into a destate to the another side tip part of the tip part of the member 5 for vertical armrests.

Drawing 11 is a whole top view in the middle of ~~****~~.

Drawing 12 is the whole time top view of ~~****~~ completion.

Drawing 13 is the whole time perspective view of ~~****~~ completion.

[0010]

[Effect of the Device]

According to this device, it can double with each user's bodily features, and the height position of the member for armrests and each seat can set up freely, and the distance of the member for armrests and a seat can also be set up freely, and very fine correspondence is attained. A seat is easy to keep it by not becoming obstructive at the time of intact, and also folding up the whole.

[0011]

[Translation done.]

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- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.*** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1]Whole perspective view

[Drawing 2]Whole front view

[Drawing 3]Whole left side view

[Drawing 4]Whole right side view

[Drawing 5]Whole transverse-plane change figure

[Drawing 6]Axle-pin rake support member pivotal attachment part sectional view

[Drawing 7]The member undersurface top view for armrests

[Drawing 8]Seat side view

[Drawing 9]The whole time perspective view of seat storage

[Drawing 10]The whole time top view of seat storage

[Drawing 11]It is a whole top view in the middle of ***.

[Drawing 12]It is a whole top view at the time of *** completion.

[Drawing 13]It is a whole perspective view at the time of *** completion.

[Description of Notations]

As for 1a and 1b, a transverse frame, and 3a and 3b a longitudinal framing and 2 An anterior part support, A rear support and 5 the member for vertical armrests, and 6 the member for horizontal armrests, and 7 for 4a and 4b The frame for seat support, 8 — a seat and 9 — the axle-pin rake for a run, and 10 — the axle-pin rake support member for a run, and 11 — a set screw and 12 — a guide bar and 13 — a joint screw and 16 show a hinge, 17 shows an electrode holder, and, as for a vertical pipe and 15, a direction rotation axis, and 14a and 14b show a joint screw carrier 18.

[Translation done.]